

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

PAPER

09/17/2007

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------------------|--------------------------------|----------------------|---------------------|------------------|
| 10/519,644 | 08/15/2005 | Alicja Zaluska | 25000.24 | 9434 |
| 27683 HAYNES AND | 7590 09/17/200 D BOONE, LLP | EXAMINER | | |
| 901 MAIN STREET, SUITE 3100 | | | HAILEY, PATRICIA L | |
| DALLAS, TX 75202 | | | ART UNIT | PAPER NUMBER |
| | | | 1755 | |
| | | | | |
| | | | MAIL DATE | DELIVERY MODE |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | A 1: 4: B1- | A 1: 4/-> | | | | |
|--|---|--|--|--|--|--|
| | Application No. | Applicant(s) | | | | |
| Office Andrews | 10/519,644 | ZALUSKA ET AL. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | Patricia L. Hailey | 1755 | | | | |
| The MAILING DATE of this communication ap Period for Reply | pears on the cover sheet wi | th the correspondence address | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | DATE OF THIS COMMUNIC 136(a). In no event, however, may a re will apply and will expire SIX (6) MON te, cause the application to become AB | CATION. apply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133). | | | | |
| Status | | | | | | |
| 1) Responsive to communication(s) filed on 23 L | <u>December 2004</u> . | | | | | |
| 2a) ☐ This action is FINAL . 2b) ☑ Thi | This action is FINAL . 2b)⊠ This action is non-final. | | | | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | | |
| closed in accordance with the practice under | Ex parte Quayle, 1935 C.D. | . 11, 453 O.G. 213. | | | | |
| Disposition of Claims | | | | | | |
| 4) Claim(s) 1 is/are pending in the application. | | | | | | |
| 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | |
| 5) Claim(s) is/are allowed. | | | | | | |
| 6)⊠ Claim(s) <u>1</u> is/are rejected. | | | | | | |
| 7) Claim(s) is/are objected to. | | | | | | |
| 8) Claim(s) are subject to restriction and/o | or election requirement. | | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Examine | er. | | | | | |
| 10)⊠ The drawing(s) filed on <u>23 December 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner. | | | | | | |
| Applicant may not request that any objection to the | | • | | | | |
| Replacement drawing sheet(s) including the correct | | • • | | | | |
| 11)☐ The oath or declaration is objected to by the E | xaminer. Note the attached | Office Action or form PTO-152. | | | | |
| Priority under 35 U.S.C. § 119 | | · | | | | |
| 12)⊠ Acknowledgment is made of a claim for foreigr a)⊠ All b)□ Some * c)□ None of: | n priority under 35 U.S.C. § | 119(a)-(d) or (f). | | | | |
| 1. Certified copies of the priority documents have been received. | | | | | | |
| 2. Certified copies of the priority documents have been received in Application No | | | | | | |
| 3. Copies of the certified copies of the prior | | received in this National Stage | | | | |
| application from the International Burea | | | | | | |
| * See the attached detailed Office action for a list | t of the certified copies not i | eceived. | | | | |
| Attachment(s) | | | | | | |
| 1) Motice of References Cited (PTO-892) 2) D Notice of Draftsperson's Patent Drawing Review (PTO-948) | | ummary (PTO-413))/Mail Date | | | | |
| 3) Information Disclosure Statement(s) (PTO/SB/08) | 5) Notice of In | formal Patent Application | | | | |
| Paper No(s)/Mail Date <u>12/23/04</u> . | 6) 🔲 Other: | _ | | | | |

Art Unit: 1755

Applicants' Preliminary Amendment, filed on December 23, 2004, has been made of record and entered. In this amendment, claims 2-68 have been canceled; no new claims have been added.

Claim 1 remains pending in this application.

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Applicants' Priority Document was filed on December 23, 2004.

Double Patenting

2. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain <u>a</u> patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer <u>cannot</u> overcome a double patenting rejection based upon 35 U.S.C. 101.

3. Claim 1 is provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claim 1 of copending Application No. 10/746,742. This is a <u>provisional</u> double patenting rejection since the conflicting claims have not in fact been patented.

Application/Control Number: 10/519,644 Page 3

Art Unit: 1755

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the in∨ention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Page 4

Art Unit: 1755

7. Claim 1 is rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over de Pous (U. S. Patent No. 4,368,143, Applicants' submitted art).

de Pous discloses a composition for the storage and regeneration of hydrogen which comprises an intimate pulverulent mixture of magnesium powder and a separating agent homogeneously distributed throughout the composition and intermixed with the magnesium powder. See col. 3, lines 9-15 of de Pous.

The composition is formed by conjointly grinding or milling magnesium powder with the separating agent. See col. 3, lines 35-45 of de Pous.

de Pous also discloses "a method of storing", which comprises forming the aforementioned pulverulent mixture, and subjecting said mixture to hydrogen contact. See col. 3, lines 46-62 of de Pous.

The above disclosures are considered to read upon steps (a) and (b) of Applicants' claim 1, as well as the limitations "substance", "first intermediate", and "second intermediate".

de Pous additionally discloses that "a relatively large number of materials can be used as separating agents..."; examples include elemental metals, metal alloys, and compounds, e.g., oxides, carbides or nitrides of magnesium, calcium, boron, etc. See col. 3, line 65 to col. 4, line 20 of de Pous, which also discloses the feasibility in employing "a combination of two or more such separating agents... for any particular industrial application,...". See also Example 5 of de Pous, which exemplifies the

Application/Control Number: 10/519,644

Art Unit: 1755

formation of a pulverulent mixture of magnesium, iron, and zinc by grinding magnesium with Zn-Fe alloy.

This disclosure is considered to read upon the limitation "electronegative element", as well as upon the limitation "third intermediate".

de Pous does not explicitly teach or suggest the claim limitations regarding the milling of the "first" and "third" intermediates. de Pous discloses that the magnesium powder and separating agent are conjointly grinded.

The composition disclosed in de Pous is considered to structurally read upon Applicants' "composition of matter" as instantly claimed, as both Patentee's magnesium powder and separating agents reads upon Applicants' "metal or metalloid, or an alloy thereof, or a compound thereof, or an homogeneous or inhomogeneous combination of at least two of the metal or metalloid, or an alloy thereof, or a compound thereof..." and upon Applicants "electronegative element".

Further, Applicants' claim is in product-by-process form (i.e., "...prepared in accordance with a method..."). Therefore, "[A]ny difference imparted by the product by process limitations would have been obvious to one having ordinary skill in the art at the time the invention was made because where the examiner has found a substantially similar product as in the applied prior art the burden of proof is shifted to the applicant to establish that their product is patentably distinct, not the examiner to show that the same is a process of making." In re Brown, 173 U.S.P.Q. 685 and In re Fessmann, 180 U.S.P.Q. 324.

In view of the above teachings, de Pous anticipates Applicants' claim 1.

In the alternative:

Although de Pous teaches conjointly grinding of the magnesium powder and the

separating agent, it has been held that:

"In general, the transposition of process steps, or the splitting of one step into

two, where the processes are substantially identical or equivalent in terms of function,

manner and result, was held to not patentably distinguish the processes." Ex parte

Rubin (POBA 1959) 128 U.S.P.Q. 440, Cohn v. Comr. Pats. (DCDC 1966) 251 F Supp

378, 148 U.S.P.Q. 486. (emphasis added)

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Patricia L. Hailey whose telephone number is (571) 272-

1369. The examiner can normally be reached on Mondays-Fridays, from 7:00 a.m. to

3:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jerry Lorengo, can be reached on (571) 272-1233. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the Group 1700 Receptionist, whose telephone

number is (571) 272-1700.

Application/Control Number: 10/519,644

Art Unit: 1755

Page 7

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Patricia L. Hailey/plh

Examiner, Art Unit 1755

September 12, 2007

J.A./LORENGO SUPERVISORY PATENT EXAMINER